## **ADDENDUM No. 1**

TO:

**ALL BIDDERS** 

FROM:

CITY OF HIALEAH

ITB#:

2016/17-9500-00-008

RE:

ITB - PUMP STATION 150 UPGRADES

DATE:

April 11, 2017

The original contract documents for the entitled: ITB – PUMP STATION 150 UPGRADES needs to be amended as noted in this Addendum No. 1.

This Addendum No. 1 consists of 1 typed page, 1 attachment, and 1 addendum receipt form (ARF). All other items and conditions of the original Contract Documents shall remain unchanged. This Addendum shall become a part of the Contract Documents.

Approved for issue:

Date: April 11, 2017

Luis A. Suarez - Acting Purchasing Manager

## **ACKNOWLEDGMENT**

Receipt of this Addendum No. 1 shall be acknowledged in the space provided on the ADDENDUM RECEIPT form – ARF (Copy attached) now a part of the Contract Documents to be faxed immediately to the City of Hialeah Purchasing Division (305) 883-5871 and submitted with sealed bids.

## **QUESTIONS AND ANSWERS:**

## **Primoris Mechanical Contractors.**

- Q1. Engineer's estimate for this project?
- A1. The engineer's estimate for this project is \$925,000.

## **Drawings**

4. ELECTRICAL DRAWINGS E01 and E02: REPLACE with DRAWINGS E01 and E02 (attached).

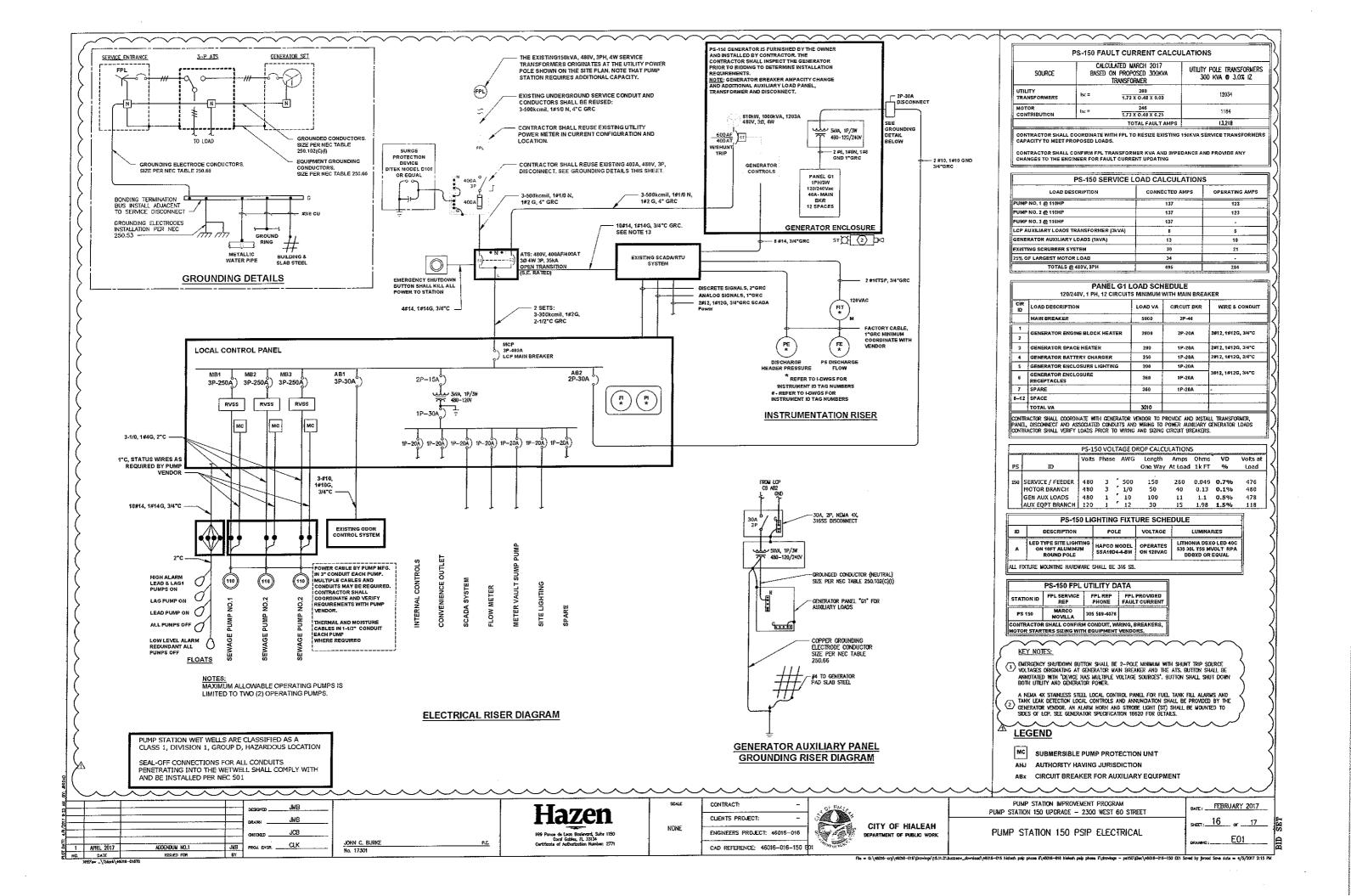
Addendum No. 1 Page 1

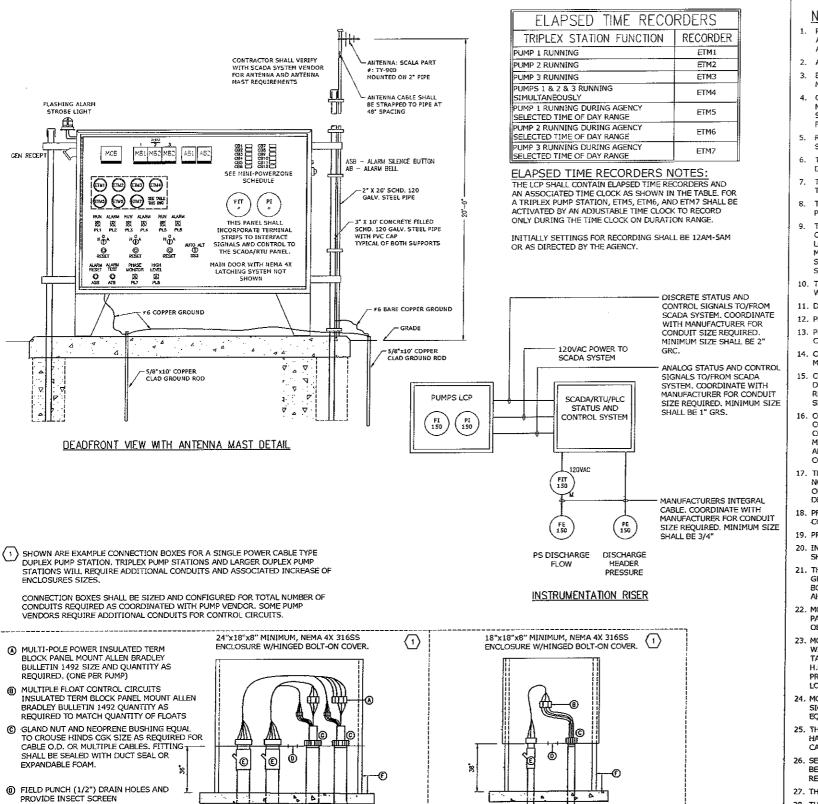
# CITY OF HIALEAH

# ITB - PUMP STATION 150 UPGRADES

# ADDENDUM No. 1

CONTRACTOR'S NAME		
	SIGNATURE	
	S RECEIPT OF THE FOLLOWING ADDEND ed immediately to the City of Hialeah at (30	
ADDENDUM	SIGNATURE	<u>DATE</u>
1		<del></del>
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MINIMIZE

PUMPS MOTOR CONNECTION BOX

TO

PANEL

CONTROL

FLOATS CONNECTION BOX

(E) CONDUIT SEAL

© CONTROL PANEL FOUNDATION

CONTROL

PANEL

#### NOTES:

- PROVIDE AND INSTALL ALL CONDUIT, WIRING, OUTLETS, LIGHTING, AND APPURTENANCES FOR POWER, INSTRUMENTATION, SECURITY, AND DATA AS INDICATED IN THE CONTRACT DOCUMENTS.
- 2. ALL CIRCUITS TO CARRY A FULL GROUND WIRE PER NEC 250.
- ELECTRICAL SERVICE SHALL INCLUDE FPL STANDARDS SEE
   MECHANICAL DWGS, FOR LOCATION AND INSTALLATION DETAILS.
- CONTRACTOR SHALL OBTAIN AVAILABLE FAULT CURRENT FROM FPL.
  MINIMUM INTERRUPTING CAPACITY OF THE ELECTRICAL EQUIPMENT
  SHALL BE MINIMUM 35,000K SYM AMPS UNLESS DOCUMENTATION
  FROM UTILITY INDICATES A LOWER RATING.
- REFER TO SPECIFICATION SECTION 01540 FOR ALL EQUIPMENT SHOWN TO BE DEMOLISHED.
- THE CONTRACTOR SHALL DEMOLISH EXISTING STORM SWITCH AND DELIVER TO THE CITY.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL A NEW AUTOMATIC TRANSFER SWITCH AS SHOWN.
- 8. THE CONTRACTOR SHALL DEMOLISH EXISTING LOCAL CONTROL PANEL (LCP) AND DELIVER TO THE CITY.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL A NEW LOCAL CONTROL PANEL REQUIRED FOR 3 @ 110 HP PUMPS AS SHOWN. THE LCP SHALL HAVE 316 S.S. SUNSHIELDS MOUNTED ON 1 INCH MINIMUM STANDOFF STUDS ON FRONT, BACK, TOP AND BOTH SIDES. DEVICE ACCESS HOLES PENETRATING THE SUN SHIELDS SHALL BE PROVIDED.
- THE CONTRACTOR SHALL DEMOLISH EXISTING ODOR CONTROL WIRING, AND DISCONNECT. INSTALL NEW WIRING AS SHOWN.
- 11. DEMOLISH EXISTING 3kVA TRANSFORMER AND DELIVER TO CITY.
- 12. PROVIDE AND INSTALL NEW MINI-POWERZONE AS SHOWN.
- PROVIDE AND INSTALL ALL INSTRUMENTATION WITH ASSOCIATED CONDUIT AND WIRING, COORDINATE WITH DIVISION 17.
- CONTRACTOR SHALL PROVIDE AND INSTALL A NEW MOTOROLA MOSCAD SCADA SYSTEM EQUIPMENT TO REPLACE THE EXISTING.
- 15. CONTRACTOR SHALL UPGRADE THE BASE STATION SCREEN DISPLAYS, HISTORICAL RECORDING AND REPORT GENERATION AS REQUIRED TO REFLECT EXISTING AND NEW EQUIPMENT AT THE SITE. COORDINATE WITH DIVISION 17.
- 16. CONTRACTOR SHALL PROVIDE, INSTALL, AND TERMINATE ALL CONTROL, SIGNAL AND POWER WIRING WITH ASSOCIATED CONDUITS AND ALL OTHER SCADA COMPONENTS, e.g. ANTENNA, MAST (IF REQUIRED), CABLING, GROUNDING AND OTHER APPURTENANCES REQUIRED FOR A COMPLETE SYSTEM AS COORDINATED WITH THE SCADA VENDOR.
- 17. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO WEEKS NOTICE TO THE OWNER WHEN THE STATION IS COMPLETE, OPERATIONAL AND THE SCADA SYSTEM IS READY FOR DEMONSTRATING AND LOOP TESTING WITH THE BASE STATION.
- 18. PROVIDE AND INSTALL NEMA 4X 316 SS PUMP MOTOR AND FLOATS CONNECTION BOXES.
- 19. PROVIDE AND INSTALL SITE LIGHTING.
- INSTALL NEW GENERATOR AS PROVIDED BY THE OWNER AND SHOWN ON THE DRAWINGS.
- 21. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 4/0 BARE COPPER GROUND RING AROUND THE PUMP STATION AND TIE TO THE BONDING TERMINATION DEVICE AS SHOWN OR REQUIRED BY THE AH1
- 22. MOTOR CIRCUIT BREAKERS SHALL BE CAPABLE OF BEING PADLOCKED IN THE OPEN POSITION WITH LOCKS NOT OBSTRUCTING THE CLOSING OF DOOR.
- 23. MOTOR CIRCUIT BREAKER INDICATED IS APPLICABLE FOR MOTOR WITH LOCKED ROTOR KVA NOT EXCEEDING 6.2 KVA PER H.P. (NEC TABLE 430.7(8), MOTORS HAVING LARGER LOCKED ROTOR KVA PER H.P. SHALL BE PROVIDED WITH MAGNETIC ONLY (MOTOR CIRCUIT PROTECTOR) TYPE CIRCUIT BREAKERS SET AT 700% MOTOR FULL LOAD AMPS BUT NOT EXCEED 1300% IF REQUIRED (PER NEC 430).
- 24. MOTOR WIRES SHOWN ARE MOTOR POWER AND GROUND ONLY. ALL SIGNAL AND CONTROL WIRING FOR MOTORS AND AUXILIARY EQUIPMENT SHALL BE INCLUDED.
- 25. THE WET WELL IS CLASSIFIED AS A CLASS I DIVISION 1 GROUP "D" HAZARDOUS LOCATION. SUBMERSIBLE PUMP CABLES AND FLOAT CABLES SHALL BE LISTED ACCORDINGLY.
- 26. SERVICE ENTRANCE RATED PUMP CONTROL PANEL ASSEMBLY SHALL BE MANUFACTURED AND LABELED PER UL 508A OR UL 698A AS
- 27. THE EXISTING MAIN DISCONNECT SWITCH SHALL BE REUSED.
- THE PUMP CONTROL PANEL SHALL INCORPORATE AN INTRUSION SWITCH THAT ACTIVATES AN ALARM TO THE SCADA WHENEVER THE PANEL IS OPENED.
- 29. THE TEMPERATURE RATING ASSOCIATED WITH THE AMPACITY OF A

- CONDUCTOR SHALL COMPLY WITH THE NEC 110.14(C).
- 30. BOND ALL METALLIC COMPONENTS TO SYSTEM GROUND
- 31. MAINTAIN CLEARANCES PER NEC 110.26 FOR ALL ELECTRICAL EQUIPMENT.
- ALL INDICATOR LAMPS SHALL BE OF THE HIGH BRIGHTNESS LED TYPE AND INCLUDE PUSH TO TEST OR HAVE AN "ALL LAMP" TEST BUTTON.
- 33. ALL POWER WIRING, UNLESS OTHERWISE NOTED, SHALL BE TYPE XHHW STRANDED COPPER.
- 34. ALL STARTERS AND CONTACTORS SHALL BE NEMA RATED
- 35. ALL PANELS, DISCONNECT SWITCHES, AND JUNCTION BOXES SHALL BE NEMA 4X, 316 STAINLESS STEEL BE LISTED BY A NRTL.
- 36. ALL MOUNTING HARDWARE EXCEPT THE EMBEDDED POLES SHALL BE 316 STAINLESS STEEL.
- SEE SPECIFICATIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
- 38. PROVIDE AND INSTALL NEW GENERATOR MAIN CIRCUIT BREAKER IN OWNER FURNISHED GENERATOR.
- POWER SHUTOFF EMERGENCY BUTTON SHALL DISCONNECT BOTH UTILITY AND EMERGENCY POWER FROM THE PUMP STATION.
- 40. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS TO THE OWNER
  AND ENGINEER WITHIN 30 DAYS OF PUMP STATION ACCEPTANCE.
  THESE SHALL INCLUDE PER FBC EC C405.7.4.1 INCLUDING:
- 40.1. SINGLE LINE DIAGRAM OF THE PUMP STATION AND SITE ELECTRICAL SYSTEM
- 40.2. PLAN VIEWS OF COMPLETE PUMP STATION
- 41. CONTRACTOR SHALL PROVIDE AN OPERATION AND MAINTENANCE MANUAL PER FBC EC C405.7.4.2 INCLUDING:
- 41.1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTION FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
- 41.2. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED
- 41.3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY
- 42. CONTRACTOR SHALL PROVIDE SIGNAGE PER NEC 110.24 AND 702.7
  AT THE SERVICE ENTRANCE EQUIPMENT VIA A STAINLESS STEEL
  PLACARD, AFFIXED TO THE SERVICE DISCONNECT.
- 43. CONTRACTOR SHALL PROVIDE SIGNAGE PER NFPA 110 FOR THE EMERGENCY SHUT-OFF BUTTON LOCATED ON THE NORTH EAST OUTSIDE CORNER OF THE IS ECTRICAL BUILDING.
- 44. CONTRACTOR SHALL PROVIDE SIGNAGE PER NFPA 704 FOR THE FUEL SUPPLY.
- 45. ELECTRIC MOTORS SHALL HAVE MINIMUM NOMINAL EFFICIENCY AS SPECIFIED IN FBC EC 505.7.5, TABLE 505.7.5.

#### PUMP STATION OPERATIONAL CONTROL STRATEGY

- PUMPS SHALL BE CONTROLLED VIA FLOATS. NORMAL OPERATION SHALL LIMIT OPERATION TO TWO PUMPS OPERATING WITH ONE STANDBY.
- EMERGENCY OPERATION SHALL BE TIED TO THE HIGH LEVEL FLOAT AND SHALL OPERATE MAXIMUM OF TWO (2)-OPERATING PUMPS.
- 3. PUMPS SHALL SHUT DOWN ON FALLING LEVEL IN SAME ORDER AS STARTED.
- 4. ALL PUMPS SHALL BE CONTROLLABLE FROM THE BASE STATION HMI AND LOCALLY FROM THE LCP CONTROLS
- SEE SPECIFICATIONS FOR ADDITIONAL DETAILS

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CONTROL DESIGN AND SCHEMATIC SHALL BE BY PANEL VENDOR AND SHALL
CONFORM TO OWNER'S CURRENT REQUIREMENTS AND CONDITIONS. BASE STATION
SCREEN DISPLAYS AND CONTROLS SHALL BE UPDATED AS REQUIRED TO MATCH FIELD
CONDITIONS.

DETAIL 1A DETAIL 1B N.T.S N.T.S. PUMP STATION IMPROVEMENT PROGRAM CONTRACT: ATE: FEBRUARY 2017 JMB PUMP STATION 150 UPGRADE - 2300 WEST 60 STREET CLIENTS PROJECT: 17 \_\_\_17 CITY OF HIALEAH COMMON ELECTRICAL DETAILS. NOTES MONE JCB HECKED ENGINEERS PROJECT: 46016-016 AND SCHEDULES E02 PROJ. ENGR. CLK ISSUED FOR

DISTANCE TO